

Please replace the paragraph beginning at page 79, line 30 with the following rewritten paragraph:

--A monoclonal antibody was raised against the MTH sequence AHRQERKQKLNSDK (amino acids 407-420 of SEQ ID NO:2) using techniques well known to those of skill in the art, as described above.--

In the claims:

Please cancel claim 5.

Please amend claims 1 and 4 as follows:

1. (Amended) An' antibody that selectively binds to a polypeptide selected from the group consisting of:

a) a polypeptide encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1 under highly stringent conditions, wherein the polypeptide retains the functional activity of an mth polypeptide;

b) a polypeptide comprising an amino acid sequence which is at least 85% homologous to the amino acid sequence of SEQ ID NO:2, wherein the polypeptide retains the functional activity of an mth polypeptide; and

c) a polypeptide comprising amino acid residues 1 to 200 of SEQ ID NO:2.

4. (Amended) A kit useful for the detection of a polypeptide, the kit comprising a carrier containing one or more containers comprising a first container containing an antibody that selectively binds to a polypeptide selected from the group consisting of:

comprising SEQ ID NO:1 under stringent conditions, and wherein the polypeptide retains the functional activity of an mth polypeptide;

b) a polypeptide comprising an amino acid sequence which is at least 85% homologous to the amino acid sequence of SEQ ID NO:2, and wherein the polypeptide retains the functional activity of an mth polypeptide; and

c) a polypeptide comprising amino acid residues 1 to 200 of SEQ ID NO:2.

Please add the following claims:

--9. An isolated antibody or fragment thereof that selectively binds to a polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO:2;
- b) a polypeptide comprising amino acid residues 1 to 200 of SEQ ID NO:2;
- c) a polypeptide comprising an antigenic fragment of SEQ ID NO:2;
- d) a polypeptide consisting of a fragment of SEQ ID NO:2, wherein said fragment comprises at least 50 contiguous amino acid residues of SEQ ID NO:2.

10. The antibody of claim 9, which is a monoclonal antibody.

11. The antibody of claim 9, which is a polyclonal antibody.

12. The antibody of claim 9, which is a humanized antibody.

14. The antibody or fragment thereof of claim 9, which is a single chain antibody.

15. A composition comprising the antibody of claims 1 or 9 and a pharmaceutically acceptable carrier.

16. A hybridoma cell line that produces a monoclonal antibody according to claim 1 or claim 9.

17. An isolated antibody or fragment thereof produced by immunizing an animal with a polypeptide selected from the group consisting of:

- a) a polypeptide comprising SEQ ID NO:2;
- b) a polypeptide comprising amino acid residues 1 to 200 of SEQ ID NO:2;
- c) a polypeptide comprising an antigenic fragment of SEQ ID NO:2;
- d) a polypeptide consisting of a fragment of SEQ ID NO:2, wherein said fragment comprises at least 50 contiguous amino acid residues of SEQ ID NO:2, wherein the antibody specifically binds to the polypeptide.

18. An antibody produced by immunizing an animal with a polypeptide having an amino acid sequence as set forth in SEQ ID NO:2, which antibody specifically binds to the polypeptide.

19. An antibody that selectively binds a polypeptide located in

20. An antibody that selectively binds to a polypeptide comprising amino acids 407-420 of SEQ ID NO:2.

21. A kit comprising an antibody which selectively binds to a polypeptide selected from the group consisting of:

a) a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2;

b) a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1 under highly stringent conditions;

c) a polypeptide comprising an amino acid sequence which is at least 85% homologous to the amino acid sequence of SEQ ID NO:2, wherein the polypeptide retains the functional activity of an mth polypeptide,  
and instructions for use.

22. A kit comprising an antibody which selectively binds to a polypeptide selected from the group consisting of:

a) a polypeptide comprising SEQ ID NO:2;

b) a polypeptide comprising amino acid residues 1 to 200 of SEQ ID NO:2;

c) a polypeptide comprising an antigenic fragment of SEQ ID NO:2;

d) a polypeptide consisting of a fragment of SEQ ID NO:2, wherein said fragment comprises at least 50 contiguous amino acid residues of SEQ ID NO:2.--